

## Impact of AI in agriculture

In India , agriculture sector plays an important role . It accounts 18 % of GDP and provides employment to 30% of our population. However, challenges like weeds, excess water wastage, low crop yield are always a hurdle to the agriculture sector.

### Weeding

Weeds in general are unwanted plants that consume the water and nutrients that the actual crop needed, resulting in low crop yield . Weeds that grow tall can also block the sunlight required for the main crop to grow . Removing these weeds is always a top priority in the agriculture field.

### Application of AI in weeding

Crop	Application	Algorithm
Pepper plants, artificial plants	Precision weed management	Machine vision, Artificial intelligence
Sugar beet	Autonomous weeding robot	Machine Vision algorithm
Sugarcane	Weed Detection	Color based and texture based algorithms, Greenness Identification, Fuzzy real time Classifier Machine Vision
Cotton	Robotic Weed control	Machine Vision algorithm based on mathematical morphology

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